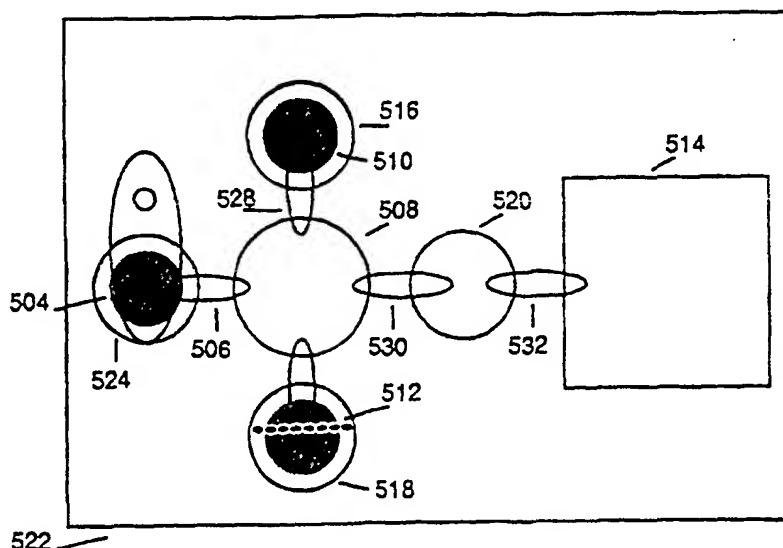




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : C12P 19/34, C12M 1/40		A1	(11) International Publication Number: WO 97/02357
			(43) International Publication Date: 23 January 1997 (23.01.97)
(21) International Application Number: PCT/US96/11147		FODOR, Stephen, P., A. [US/US]; 3863 Nathan Way, Palo Alto, CA 94304 (US).	
(22) International Filing Date: 27 June 1996 (27.06.96)		(74) Agents: MURPHY, Matthew, B. et al.; Townsend and Townsend and Crew L.L.P., 8th floor, Two Embarcadero Center, San Francisco, CA 94111-3834 (US).	
(30) Priority Data: 60/000,859 3 July 1995 (03.07.95) US 60/000,703 29 July 1995 (29.07.95) US 08/589,027 19 January 1996 (19.01.96) US		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(60) Parent Application or Grant (63) Related by Continuation US 08/589,027 (CIP) Filed on 19 January 1996 (19.01.96)		Published With international search report.	
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(54) Title: INTEGRATED NUCLEIC ACID DIAGNOSTIC DEVICE



## (57) Abstract

The present invention provides a miniaturized integrated nucleic acid diagnostic device and system (522). The device (522) of the invention is generally capable of performing one or more sample acquisition and preparation operations, in combination with one or more sample analysis operations. For example, the device (522) can integrate several or all of the operations involved in sample acquisition and storage, sample preparation and sample analysis, within a single integrated unit (522). The device (522) is useful in a variety of applications, and most notably, nucleic acid based diagnostic applications and *de novo* sequencing applications.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US96/11147

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(6) : C12P 19/34; C12M 1/40

US CL : 435/91.2, 287.2

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : Please See Extra Sheet.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y ----- A	WO 94/05414 A1 (THE REGENTS OF THE UNIVERSITY OF CALIFORNIA) 17 March 1994 (17.03.94), see entire document.	1-11, 18-74, 84-91 ----- 12-17, 75-83
Y ----- A	US 4,426,451 A (COLUMBUS) 17 January 1984 (17.01.84), see entire document.	1-11, 18-55, 84-91 ----- 12-17, 75-83
Y, P	US 5,498,392 A (WILDING ET AL.) 12 March 1996 (12.03.96), see entire document.	25-28, 36-39, 41, 45-48, 66- 69



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Date of the actual completion of the international search

19 SEPTEMBER 1996

Date of mailing of the international search report

11 OCT 1996

Name and mailing address of the ISA/US  
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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US96/11147

## B. FIELDS SEARCHED

Minimum documentation searched

Classification System: U.S.

435/6, 91.1, 91.2, 286.1, 286.5, 286.6, 286.7, 287.2, 288.5, 288.6, 288.7, 294.1, 297.5, 305.3, 306.1; 436/43, 94, 175, 177, 178, 180; 422/68.1, 80, 81, 100, 101, 102; 935/76-78, 85-88; 137/814, 206, 208, 571; 417/118,121